

Exhibit Name: Premium Calculation
 Exhibit Number: P13-1, Plan 43
 Record Name: Inventory Value
 Record Code: P13

Reinsurance Year: 2011
 Version: DRAFT
 Release Date: 7/21/2011

Insurance Plan Code 43 Aquaculture Dollar
 Commodity Code 0116 Cultivated Clams

Calculations	Field Name	Record Number	Field Number	Field Format	Field Rounding	Rules
Section 1: Liability Calculation						
Inventory Value Amount = Reported Clam Count * Survival Percent * (Reference Maximum Dollar Amount * Growth Stage Factor)	Inventory Value Amount	Internal		999999999	Round to whole number	This will be determined internally for Clams.
	Reported Clam Count	P13	42	99999999	None	
	Survival Percent	ADM		9.999	None	Edit With ADM Price, "A00810".
	Reference Maximum Dollar Amount	ADM		9999.9999	None	If Coverage Type equals Catastrophic, "CAT" then Catastrophic Dollar Amount will be used instead of Reference Maximum Dollar Amount. Edit With ADM Price, "A00810".
	Growth Stage Factor	ADM		9999.9999	None	Edit With ADM Price, "A00810".
Liability Amount = Inventory Value Amount * Coverage Level Percent * Insured Share Percent	Liability Amount	P13	51	9999999999	Round to whole number	
	Coverage Level Percent	P14	34	9.9999	None	
	Insured Share Percent	P13	26	9.9999	None	
Section 2: Base Premium Rate Calculation						
Base Premium Rate = Base Rate * Rate Differential Factor	Base Premium Rate	Internal		999999.99999999	Round to 8 decimals.	
	Base Rate	ADM		999.9999	None	Edit with ADM Base Rate, "A01010".
	Rate Differential Factor	ADM		9.99999999	None	Edit with ADM Coverage Level Differential, "A01040".
Section 3: Optional Coverage Calculation						
Additive Optional Rate Adjustment Factor = \sum Option Rate * Rate Differential Factor When Rate Method Code is Additive, "A":	Additive Optional Rate Adjustment Factor	Internal		999999.9999	Round to 4 decimals.	
	Option Rate	ADM		99999.9999	None	Option Rate will be the Sum of all Option Rate with Rate Method Code equal to Additive, "A". Edit with ADM Option Rate, "A01060".
	Rate Differential Factor	ADM		9.99999999	None	Edit with ADM Coverage Level Differential, "A01040".
Multiplicative Optional Rate Adjustment Factor = \sum Option Rate1 * Option Rate2 * Option Rate3... When Rate Method Code is Multiplicative, "M":	Multiplicative Optional Rate Adjustment Factor	Internal		999999.9999	Round to 4 decimals.	
	Option Rate	ADM		9.9999	None	Edit with ADM Option Rate, "A01060".

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<div>Section 4: Premium Rate Calculation</div> <div>The Premium Rate for ALL Unit Structures should be capped at .999 in the event various adjustments to the Base Premium Rate would cause it to exceed 1.0.</div>						
Premium Rate = Base Premium Rate * Unit Structure Discount Factor * Multiplicative Optional Rate Adjustment Factor + Additive Optional Rate Adjustment Factor	Premium Rate	Internal		999999999.99999999	Round to 8 decimals.	Premium Rate is capped at 0.99900000.
	Unit Structure Discount Factor	ADM		9.999	None	Edit with ADM Unit Discount, "A01090". When Unit Structure Code equals "OU", then Unit Structure Discount Factor equals Optional Unit Discount Factor. When Unit Structure Code equals "BU", then Unit Structure Discount Factor equals Basic Unit Discount Factor.
Section 5: Total Premium, Subsidy, and Producer Premium Calculation						
Total Premium Amount = Liability Amount * Premium-Base Rate * Rate-Differential-Factor * Unit Structure Discount Factor * Option-Rate * Proration Percent	Total Premium Amount	P13	49	999999999	Round to whole number	
	Base-Rate	ADM		999.9999	None	Edit with ADM Base-Rate, "A01010".
	Rate-Differential-Factor	ADM		9.999999999	None	Edit with ADM Coverage-Level-Differential, "A01040".
	Unit-Structure-Discount-Factor	ADM		9.999	None	Edit with ADM Unit Discount, "A01090". When Unit Structure Code equals "OU", then Unit Structure Discount Factor equals Optional Unit Discount Factor. When Unit Structure Code equals "BU", then Unit Structure Discount Factor equals Basic Unit Discount Factor. When Unit Structure Code equals "EU", then Unit Structure Discount Factor equals Enterprise Unit Discount Factor.
	Option-Rate	ADM		9.9999	None	Edit with ADM Option-Rate, "A01060".
	Proration Percent	ADM		9.99	None	Edit with ADM Proration, "A01070".
	Subsidy Amount	P13	50	999999999	Round to whole number	
Subsidy Amount = Total Premium Amount * Subsidy Percent	Subsidy Percent	ADM		9.999	None	Edit with ADM Subsidy Percent, "A00070".
Producer Premium Amount = Total Premium Amount - Subsidy Amount	Producer Premium Amount	P13	52	999999999	Round to whole number	

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Insurance Plan Code

43 Aquaculture Dollar

Commodity Code

0116 Cultivated Clams

Calculations

Field
Name

Record
Number

Field
Number

Field
Format

Field
Rounding

Rules

Section 6: Commodity Year Deductible Amount Calculation

This information will be based on the 'basic unit'.

Commodity Year
Deductible Amount = Inventory Value Amount * (1 - Coverage Level Percent)

Commodity Year Deductible
Amount

Internal

999999999

Round to whole number

Inventory Value Amount

Internal

999999999

Round to whole number

Sum the Inventory Values for the basic unit.

Coverage Level Percent

P14

34

9.9999

None